Psychological Review

Volume 86 1979

WILLIAM K. ESTES Editor
Harvard University

CONSULTING EDITORS

ALEXANDER M. BUCHWALD
Indiana University

RACHEL JOFFE FALMAGNE
Clark University

ROBERT M. KRAUSS
Columbia University

GARY M. OLSON
University of Michigan

RICHARD MARTIN SHIFFRIN
Indiana University

EDWARD E. SMITH
Stanford University

JOHN THEIOS
University of Wisconsin—Madison

JERRY S. WIGGINS
University of British Columbia—Vancouver, Canada

Published bimonthly by the
American Psychological Association, Inc.
1200 Seventeenth Street, N.W., Washington, D.C. 20036

Copyright © 1979 by the American Psychological Association, Inc.

Acknowledgment

The Editor and Consulting Editors wish to acknowledge with thanks the contributions of the following individuals who reviewed manuscripts submitted for the 1979 volume. (Asterisks indicate contributors of more than one review.)

Doris Aaronson
James Allison
James A. Anderson*
John R. Anderson*
Norman H. Anderson
Michael A. Arbib
Lawrence E. Arend, Jr.
Barry C. Arnold
Lloyd L. Avant
James R. Averill*

Donald Bamber
Albert Bandura
Theodore X. Barber
Jonathan Baron
Harry Beilin
Daryl J. Bem
Gerald B. Biederman
Dalbir Bindra
David Birch*
Robert A. Bjork
Albert A. Blank
Robert C. Bolles
Gordon H. Bower
Martin D. S. Braine
Charles J. Brainerd
John Bransford
Bruno G. Breitmeyer
Philip Brickman
Urie Bronfenbrener
G. A. Buchtel

John B. Carroll
Edward Carterette*
N. John [illegible]ian, Jr.
A. Charles Catania
Sheila Chase
James I. Chumbley
Russell M. Church
George H. Collier
Barry E. Collins
Clyde H. Coombs
William E. Cooper
Stanley Coren*
Rue L. Cromwell
James P. Cunningham

Michael L. Davidson
James H. Davis
Gerald C. Davison
James Deese
Irving T. Diamond

Howard E. Egeth
David Elkind
Phoebe C. Ellsworth
Robert N. Emde
Frederick J. Evans
Jean-Claude Falmagne*
Sylvia Farnham-Diggory
Mary Ann Fisher
Uriel G. Foa

Carol A. Fowler*
Robert Fox
Jonathan L. Freedman
Peter W. Frey
Kenneth E. Friend

Murray Glanzer
Arthur M. Glenberg
Richard Gold
Stephen L. Golding
David M. Green
Patricia M. Greenfield
James Greeno
Joan E. Grusec

Michael J. Hacker
John H. Harvey*
Eric G. Heinemann
Joseph B. Hellige
E. T. Higgins
Stephen Hirtle
Bartley G. Hoebel
Keith Holyoak
Philip S. Holzman
Lois Hood
Lawrence J. Hubert
Lloyd G. Humphreys

Alice M. Isen
Richard J. Jagacinski
Herbert M. Jenkins
James C. Johnston
Gregory V. Jones*
John Jonides

Jerome Kagan
James P. Kahan
Daniel Kahneman
Barry Kantowitz
Harold H. Kelley
J. A. Scott Kelso
Deborah G. Kemler
David A. Kenny
David E. Kieras
Herbert D. Kimmel*
Marcel Kinsbourne
Stephen M. Kosslyn
Lester E. Krueger
Carol L. Krumhansl*

David L. LaBerge*
Joseph S. Lappin
J. E. S. Lawrence
Richard S. Lazarus
Catherine L. Lee
Herschel W. Leibowitz
W. R. Levick
Jerre Levy
Harold Lindman
Alfred Lit
Vincent M. LoLordo
R. Duncan Luce*

Neal A. Macmillan
Dominic W. Massaro*
James M. McClelland
Douglas L. Medin
William Meredith
Donald E. Meyer
Arthur G. Miller
Brenda A. Milner
John Monahan
J. Anthony Movshon
Paul H. Mussen

Jacob Nachmias
James H. Neely
Edith D. Neimark
Katherine Nelson
Thomas O. Nelson
Paul G. Neumann
David Noreen
Ralph Norgren
Donald A. Norman

Yoshio Okada
Thomas Oltmanns
Daniel Osherson
John W. Payne*
Donald W. Pfaff
Gordon F. Pitz
Peter G. Polson
James R. Pomerantz
Michael I. Posner
Zenon W. Pylyshyn

David H. Raab
Patrick M. A. Rabbitt
Howard Rachlin
Roger Ratcliff*
Keith Rayner
Stephen K. Reed
William Revelle
Joseph Reyher
Lance J. Rips
Daniel N. Robinson
Mark R. Rosenzweig
Burton S. Rosner
Michael Rothschild
John A. Rotondo
James A. Russell

Harold Sackeim
James R. Sawusch
Bertram Scharf
Walter Schneider
Martin Seligman
Roger N. Shepard
Steven J. Sherman*
Carl E. Sherrick
Sara J. Shettleworth
Edward J. Shoben
Herbert A. Simon
Jerome E. Singer
Norman J. Slamecka

Eliot R. Smith
Linda B. Smith
George Sperling
Donna Spiker*
George Spivack
J. E. R. Staddon*
Keith E. Stanovich
Robert J. Sternberg
Saul Sternberg
Clifford H. Swensen

Robert Teghtsoonian
Ewart A. C. Thomas
Richard F. Thompson*

James T. Townsend*
Ann Treisman
Harry C. Triandis
Endel Tulving
Michael T. Turvey
Gerald Turkewitz
Amos Tversky*

William R. Uttal

W. A. Wagenaar
Thomas S. Wallsten*
Michael J. Watkins
Daniel J. Weintraub

Ronald G. Weisman
Naomi Weisstein
Meredith West*
Kenneth Wexler*
Philip Wexler
Jesse W. Whitlow, Jr.
Ben A. Williams
Ward Winton
Charles C. Wood
Robert S. Wyer, Jr.

John I. Yellott

Jozef J. Zwislocki

APA JOURNAL STAFF

Anita DeVivo, *Executive Editor*

Barbara R. Richman, *Production Supervisor*

Ann I. Mahoney, *Manager, Journal Production*

Robert J. Hayward, *Advertising Representative*

Juanita Brodie, *Subscription Manager*

Author Index to Volume 86

Key to Pagination

Issue	*Month*	*Pages*	*Issue*	*Month*	*Pages*
1	January	1–85	4	July	287–413
2	March	87–160	5	September	415–505
3	May	161–285	6	November	507–594

ARTICLES

Anderson, John R. Further arguments concerning representations for mental imagery: A response to Hayes-Roth and Pylyshyn 395
Anzai, Yuichiro, and Simon, Herbert A. The theory of learning by doing 124
Arabie, Phipps. *See* Shepard, Roger N.

Bentler, P. M., and Speckart, George. Models of attitude–behavior relations 452
Blankenship, Virginia. *See* Kuhl, Julius.
Braine, Martin D. S. If–then and strict implication: A response to Grandy's note 154
Brainerd, Charles J. Markovian interpretations of conservation learning 181
Brewer, Marilynn B. *See* Reeder, Glenn D.

Corballis, Michael C. Memory retrieval and the problem of scanning 157

Einhorn, Hillel J., Kleinmuntz, Don N., and Kleinmuntz, Benjamin. Linear regression *and* process-tracing models of judgment 465

Falmagne, J. C., Iverson, G., and Marcovici, S. Binaural "loudness" summation: Probabilistic theory and data 25
Frank, James S. *See* Schmidt, Richard A.
Freedman, Jonathan L. Reconciling apparent differences between the responses of humans and other animals to crowding 80

Gopher, Daniel. *See* Navon, David.
Grandy, Richard E. Inference and if–then 152

Hawkins, Brian. *See* Schmidt, Richard A.
Hayes-Roth, Frederick. Distinguishing theories of representation: A critique of Anderson's "Arguments concerning mental imagery" 376
Herrnstein, R. J. Derivatives of matching 486
Heyman, Gene M. Matching and maximizing in concurrent schedules 496

Iverson, G. *See* Falmagne, J. C.

Kintsch, Walter, and Polson, Peter G. On nominal and functional serial position curves: Implications for short-term memory models? 407
Kleinmuntz, Benjamin. *See* Einhorn, Hillel J.
Kleinmuntz, Don N. *See* Einhorn, Hillel J.
Kuhl, Julius, and Blankenship, Virginia. The dynamic theory of achievement motivation: From episodic to dynamic thinking 141

Logan, Frank A. Hybrid theory of operant conditioning 507

Malone, Thomas W. *See* Thomas, Ewart A. C.
Malouf, Michael W. K. *See* Roth, Alvin E.
Marcovici, S. *See* Falmagne, J. C.
Marks, Lawrence E. A theory of loudness and loudness judgments 256
McClelland, James L. On the time relations of mental processes: An examination of systems of processes in cascade 287
Motheral, Susan. *See* Staddon, J. E. R.

Navon, David, and Gopher, Daniel. On the economy of the human-processing system 214

Ortony, Andrew. Beyond literal similarity 161

Polson, Peter G. *See* Kintsch, Walter.
Poulton, E. Christopher. Composite model for human performance in continuous noise 361
Pylyshyn, Zenon W. Validating computational models: A critique of Anderson's indeterminacy of representation claim 383

Quinn, John T., Jr. *See* Schmidt, Richard A.

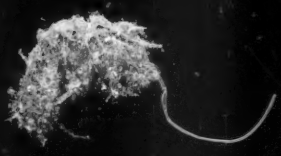
Reeder, Glenn D., and Brewer, Marilynn B. A schematic model of dispositional attribution in interpersonal perception 61
Restle, Frank. Coding theory of the perception of motion configurations 1
Roth, Alvin E., and Malouf, Michael W. K. Game-theoretic models and the role of information in bargaining 574

Sattath, Shmuel. *See* Tversky, Amos.
Schmidt, Richard A., Zelaznik, Howard, Hawkins, Brian, Frank, James S., and Quinn, John T., Jr. Motor-output variability: A theory for the accuracy of rapid motor acts 415
Shepard, Roger N., and Arabie, Phipps. Additive clustering: Representation of similarities as combinations of discrete overlapping properties 87
Simon, Herbert A. *See* Anzai, Yuichiro.
Speckart, George. *See* Bentler, P. M.
Staddon, J. E. R., and Motheral, Susan. Response independence, matching, and maximizing: A reply to Heyman 501

Thomas, Ewart A. C., and Malone, Thomas W. On the dynamics of two-person interactions .. 331
Tversky, Amos, and Sattath, Shmuel. Preference trees 542

Wickelgren, Wayne A. Chunking and consolidation: A theoretical synthesis of semantic networks, configuring in conditioning, S–R versus cognitive learning, normal forgetting, the amnesic syndrome, and the hippocampal arousal system 44

Zelaznik, Howard. *See* Schmidt, Richard A.

OTHER

Change of editor's address 360, 451
Correction to Staddon and Motheral 156
Notice on author alterations 79, 151